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Stocker, A.J.; Warrington, E.M.; Jones, T.B.; Liu, S.K.;

Frequency Selection and Management Techniques for HF Communications (Ref. No.

1999/017), IEE Colloquium on , 29-30 March 1999 Pages: 2/1 - 2/6

[Abstract] [PDF Full-Text (424 KB)] **IEE CNF** 

2 Numerical simulation of currents induced by geomagnetic storms on buried pipelines: an application to the Tierra del Fuego, Argentina, gas transmission route

Favetto, A.; Osella, A.;

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 37 , Issue:

1, Jan. 1999

Pages:614 - 619

[Abstract] [PDF Full-Text (140 KB)] **IEEE JNL** 

3 Computational aspects of geodynamo simulations

Glatzmaier, G.A.; Clune, T.;

Computing in Science & Engineering [see also IEEE Computational Science and Engineering], Volume: 2, Issue: 3, May-June 2000

Pages: 61 - 67

[Abstract] [PDF Full-Text (1388 KB)] **IEEE JNL** 

4 On the self-consistent algorithm for numerical simulation of the global geomagnetic disturbances and associated electric current spreading to low

#### **latitudes**

Alperorich, L.; Fidel, B.; Antennas and Propagation Society International Symposium, 2001. IEEE , Volume: 3 , 8-13 July 2001 Pages:125 - 128 vol.3

[Abstract] [PDF Full-Text (144 KB)] IEEE CNF

# 5 A three-dimensional numerical model for satellite-magnetoplasma interactions

Vashi, B.I.; Singh, N.; Leung, W.C.; Southeastcon '93, Proceedings., IEEE , 4-7 April 1993 Pages:4 p.

[Abstract] [PDF Full-Text (352 KB)] IEEE CNF

### 6 Directions of arrival at three frequencies on a propagation path along the mid-latitude trough: a comparison of observations with ray tracing simulations

Stocker, A.J.; Warrington, E.M.; Jones, T.B.; HF Radio Systems and Techniques, 2000. Eighth International Conference on (IEE Conf. Publ. No. 474), 10-13 July 2000 Pages:193 - 197

[Abstract] [PDF Full-Text (400 KB)] IEE CNF

# 7 Simulation of geomagnetic currents induced in a power system by magnetohydrodynamic electromagnetic pulses

Rackliffe, G.B.; Crouse, J.C.; Legro, J.R.; Kruse, V.J.;
Power Delivery, IEEE Transactions on , Volume: 3 , Issue: 1 , Jan. 1988
Pages: 392 - 397

[Abstract] [PDF Full-Text (488 KB)] IEEE JNL

# 8 Transformer design considerations for mitigating geomagnetic induced saturation

Viana, W.C.; Micaleff, R.J.; Young, S.; Dawson, F.P.; Dick, E.P.; Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999 Pages: 3532 - 3534

[Abstract] [PDF Full-Text (168 KB)] IEEE JNL

# 9 Fountain-like flow of heavy oxygen ions from the Earth's ionosphere in response to transverse heating

Singh, N.;

Plasma Science, IEEE Transactions on , Volume: 24 , Issue: 1 , Feb. 1996 Pages:18 - 19

[Abstract] [PDF Full-Text (212 KB)] IEEE JNL

# 10 Rotor heating effects from geomagnetic induced currents

Gish, W.B.; Feero, W.E.; Rockefeller, G.D.;

Power Delivery, IEEE Transactions on , Volume: 9 , Issue: 2 , April 1994

Pages:712 - 719

### [Abstract] [PDF Full-Text (612 KB)] IEEE JNL

### 11 Geomagnetic effects on power systems

Ringlee, R.J.; Stewart, J.R.;

Power Engineering Review, IEEE, Volume: 9, Issue: 7, July 1989

Pages:6 - 9

[Abstract] [PDF Full-Text (492 KB)] IEEE JNL

### 12 Dispersive Alfven waves: nonlinear and kinetic effects

Rankin, R.; Samson, J.C.; Tikhonchük, V.T.;

Plasma Science, 2002. ICOPS 2002. IEEE Conference Record - Abstracts. The 29th IEEE International Conference on , 26-30 May 2002

Pages: 203

[Abstract] [PDF Full-Text (185 KB)] IEEE CNF

### 13 Geant4 based cosmic-ray background simulator for balloon experiments

Mizuno, T.; Fukazawa, Y.; Hirano, K.; Mizushima, H.; Ogata, S.; Handa, T.; Kamae, T.; Lindner, T.; Ozaki, M.; Sjogren, M.; Valtersson, P.; Kelly, H.;

Nuclear Science Symposium Conference Record, 2001 IEEE , Volume: 1 , 4-10

Nov. 2001

Pages:442 - 446 vol.1

[Abstract] [PDF Full-Text (374 KB)] IEEE CNF

### 14 Magnetosphere-ionosphere coupling by inertial Alfven waves

Thompson, B.J.; Lysak, R.L.;

Plasma Science, 1995. IEEE Conference Record - Abstracts., 1995 IEEE

International Conference on , 5-8 June 1995

Pages: 183

[Abstract] [PDF Full-Text (84 KB)] IEEE CNF

# 15 Determination of dispersive bandwidths characteristic for the propagation of HF pulses via the ionosphere

Grubor, D.P.;

Antennas and Propagation, 1995. ICAP '95. Ninth International Conference on (Conf. Publ. No. 407), Volume: 2, 4-7 April 1995

Pages:73 - 76 vol.2

[Abstract] [PDF Full-Text (368 KB)] IEE CNF

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# CREME96: a revision of the C\_osmic R\_ay E\_ffects on M\_icro-E\_lectronics

code,

Tylka, A.J. Adams, J.H., Jr. Boberg, P.R. Brownstein, B. Dietrich, W.F. Flueckiger, E.O.

Petersen, E.L. Shea, M.A. Smart, D.F. Smith, E.C.

E.O. Hulburt Center for Space Res., Naval Res. Lab., Washington, DC, USA;

This paper appears in: Nuclear Science, IEEE Transactions on

Meeting Date: 07/21/1997 - 07/25/1997

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Location: Snowmass Village, CO USA

On page(s): 2150 - 2160 Volume: 44, Issue: 6 ISSN: 0018-9499

Reference Cited: 75 CODEN: IETNAE

Inspec Accession Number: 5804594

### Abstract:

CREME96 is an update of the Cosmic Ray on Micro-Electronics code, a widely-used suite of programs for creating numerical models of the ionizing-radiation environment in near-Earth orbits and for evaluating radiation effects in spacecraft. CREME96, which is now available over the World-Wide Web (WWW) at http://crsp3.nrl.navy.mil/creme96/, has many significant features, including: (1) improved models of the galactic cosmic ray, anomalous cosmic ray, and solar energetic particle ("flare") components of the near-Earth environment; (2) improved geomagnetic transmission calculations; (3) improved nuclear transport routines; (4) improved single-event upset (SEU) calculation techniques. for both proton-induced and direct-ionization-induced SEUs; and (5) an easy-to-use graphical interface, with extensive on-line tutorial information. In this paper we document some of these improvements

#### **Index Terms:**

cosmic ray interactions integrated circuit modelling space vehicle electronics CREME96 Cosmic Ray Effects on Micro-Electronics code anomalous cosmic rays direct-ionization-induced SEU flares galactic cosmic rays geomagnetic transmission graphical interface ionizing radiation effect near-Earth orbit nuclear transport numerical model proton-induced SEU single-event

### upset solar energetic particles spacecraft

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#### Reference list:

- 1, J. H.Adams Jr., R.Silberberg, and C.H.Tsao, Cosmic Ray Effects on Microelectronics, Part I: The Near-Earth Particle Environment, NRL Memorandum Report 4506, August 25, 1981.
- 2, J.R.Letaw, Space Radiation, a commercial code available from Space Radiation Associates.
- 3, T.M.Jordan, NOVICE, a commercial code available from E.M.P. Consultants.
- 4, P. P. Majewski, E. Normand, and D. L. Oberg, "A New Solar Flare Heavy Ion Model and its Implementation Through MACREE, An Improved Modeling Tool to Calculate Single Event Effect Rates in Space," IEEE Trans. Nucl. Sci., vol. 42, pp. 2043, 1995. [Abstract] [PDF Full-Text (772KB)]
- 5, J. H.Adams Jr., Cosmic Ray Effects on Microelectronics (CREME), Part IV, Naval Research Laboratory Memorandum Report 5901, December 31, 1986.
- 6, R.A.Nymmik, M.I.Panasyuk, T.I.Pervaja, and A.A.Suslov, "A Model of Galactic Cosmic Ray Fluxes," Nucl. Tracks Radiat. Meas., vol. 20, pp. 427, 1992 [online] Available: Details of a more recent and slightly different version of this model may be found at http://www.npi.msu.su/gcrf/form.html. [CrossRef] [Buy Via Ask\*IEEE]
- 7, C.Lopate, J.Simpson, and M.Garcia-Munoz, private communication, 1997.
- 8, M.Garcia-Munoz, G.M.Mason, and J.A.Simpson, "The Isotopic Composition of Galactic Cosmic Ray Lithium, Berylium, and Boron," Astrophys. J. Letters, vol. 201, pp. L145, 1975.

[CrossRef] [Buy Via Ask\*IEEE]

9, J.H.Adams Jr. and J.Lee, "A Model of the Primary Cosmic Ray Spectra," Radiat. Meas., vol. 26, pp. 467, 1996.

### [CrossRef]

- 10, D.L.Chenette et al., "The CRRES/SPACERAD Heavy Ion Model of the Environment (CHIME) for Cosmic and Solar Particle Effects on Electronic and Biological Systems in Space," IEEE Trans. Nucl. Sci., vol. 41, pp. 2332, 1994. [Abstract] [PDF Full-Text (748KB)]
- 11, G.D.Badhwar and P.M.O'Neill, "An Improved Model of Galactic Cosmic Radiation for Space Exploration Missions," Nucl. Tracks Radiat. Meas., vol. 20, no. 3, pp. 403, 1992. [CrossRef] [Buy Via Ask\*IEEE]
- 12, R.A.Nymmik, M.I.Panasyuk, and A.A.Suslov, "Galactic Cosmic Ray Flux Simulation and Prediction," Adv. Space Res., vol. 17, no. 2, pp. 19, 1996. [CrossRef] [Buy Via Ask\*IEEE]

13, E.L.Petersen, "SEE Rate Calculations Using the Effective Flux Approach and a Generalized Figure of Merit Approximation," IEEE Trans. Nucl. Sci., vol. 42, pp. 1995, 1995.

[Abstract] [PDF Full-Text (804KB)]

- 14, E.L.Petersen, J.B.Langworthy, and S.E.Diehl, "Suggested Single Event Upset Figure of Merit," IEEE Trans. Nucl. Sci., vol. 30, pp. 448, 1983. [Buy Via Ask\*IEEE]
- 15, E.L.Petersen, J.C.Pickel, J.H.Adams Jr., and E.C.Smith, "Rate Predictions for Single Event Effects - A Critique," IEEE Trans. Nucl. Sci., vol. 39, pp. 1577, 1992. [Abstract] [PDF Full-Text (2052KB)]
- 16, J.C.Pickel, "Single-Event Effects Rate Predictions," IEEE Trans. Nucl. Sci., vol. 32, pp. 483, 1996. [Abstract] [PDF Full-Text (1400KB)]
- 17, W.R.Binns et al., "Abundances of Ultraheavy Elements in the Cosmic Radiation: Results from HEAO 3," Astrophys. J., vol. 346, pp. 997, 1989. [CrossRef] [Buy Via Ask\*IEEE]
- 18, J.H.Adams Jr. et al., "The Charge State of the Anomalous Component of Cosmic Rays," Astrophys. J. Letters, vol. 375, pp. L48, 1991. [Buy Via Ask\*IEEE]
- 19, B.Klecker et al., "Charge State of Anomalous Cosmic Ray Nitrogen, Oxygen, and Neon: SAMPEX Observations," Astrophys. J. Letters, vol. 442, pp. L69, 1995. [CrossRef] [Buy Via Ask\*IEEE]
- 20, N.L.Grigorov et al., "Evidence for Trapped Anomalous Cosmic Ray Oxygen Ions in the Inner Magnetosphere," Geophys. Res. Letters, vol. 18, pp. 1959, 1991. [Buy Via Ask\*IEEE]
- 21, R.S.Selesnick et al., "Geomagnetically Trapped Anomalous Cosmic Rays," J. Geophys. Res., vol. 100, pp. 9503, 1995. [Buy Via Ask\*IEEE]
- 22, A.J.Tylka et al., "LET Spectra of Trapped Anomalous Cosmic Rays in Low-Earth Orbits," Adv. Space Res., vol. 17, no. 2, pp. 47, 1996. [CrossRef] [Buy Via Ask\*IEEE]
- 23, R.A.Mewaldt et al., "Evidence for Multiply Charged Anomalous Cosmic Rays," Astrophys. J. Letters, vol. 466, pp. L43, 1996. [CrossRef] [Buy Via Ask\*IEEE]
- 24, A.C.Cummings, E.C.Stone, and W.R.Webber, "Evidence that the Anomalous Cosmic-Ray Component is Singly-Ionized," Astrophys. J. Letters, vol. 287, pp. L99, 1984. [CrossRef] [Buy Via Ask\*IEEE]
- 25, A.J.Tylka et al., "Cosmos Results on the Altitude Dependence of Geomagnetically Trapped Anomalous Cosmic Rays," in Proc. 24th Internat. Cosmic Ray Conf. Rome, vol. 4, 1995, p. 485.

### [Buy Via Ask\*IEEE]

- 26, A.C.Cummings and E.C.Stone, "Elemental Composition of the Anomalous Cosmic-Ray Component," in Proc. 20th Internat. Cosmic Ray Conf. Moscow, vol. 3, 1987, p. 413. [Buy Via Ask\*IEEE]
- 27, R.A.Mewaldt, "Evidence for Anomalous Cosmic Ray Hydrogen During the 1976-1977 Solar Minimum," in Proc. 24th Internat. Cosmic Ray Conf. Rome, vol. 4, 1995, p. 808. [Buy Via Ask\*IEEE]
- 28, T.Takashima et al., "The First Observation of Sulfur in Anomalous Cosmic Rays by the GEOTAIL and WIND Spacecrafts," Astrophys. J. Letters, vol. 477, pp. L111, 1997. [CrossRef] [Buy Via Ask\*IEEE]
- 29, E.C.Stone and A.C.Cummings, "Evidence for Anomalous Cosmic Ray S, Si, and Fe in the Outer Heliosphere and for a Non-ACR Source of S at 1 AU," in Proc. 25th Internat. Cosmic Ray Conf. Durban, vol. 2, 1997, p. 289. [Buy Via Ask\*IEEE]
- 30, R.A.Mewaldt et al., "The Return of Anomalous Cosmic Rays to 1 AU in 1992," Geophys. Res. Letters, vol. 20, pp. 2263, 1993. [Buy Via Ask\*IEEE]
- 31, J.T.Gosling, "The Solar Flare Myth," J. Geophys. Research, vol. 98, pp. 18937, 1993. [Buy Via Ask\*IEEE]
- 32, S.W.Kahler, "Solar Flares and Coronal Mass Ejections," Ann. Rev. Astron. Astrophys., vol. 30, pp. 113, 1992. [CrossRef]
- 33, D.V.Reames, "Non-Thermal Particles in the Interplanetary Medium," Adv. Space Research, vol. 13, no. 9, pp. 331, 1993. [CrossRef] [Buy Via Ask\*IEEE]
- 34, A.J.Tylka, W.F.Dietrich, P.R.Boberg, E.C.Smith, and J.H.Adams Jr., "Single Event Upsets Caused by Solar Energetic Heavy Ions," IEEE Trans. Nucl. Sci., vol. 43, pp. 2758, 1996.

[Abstract] [PDF Full-Text (1072KB)]

35, A.J.Tylka, W.F.Dietrich, and P.R.Boberg, "Probability Distributions of High-Energy Solar-Heavy-Ion Fluxes from IMP-8: 1973-1996," in IEEE Trans. Nucl. Sci. (these proceedings).

[Buy Via Ask\*IEEE]

- 36, H.H.Sauer, "GOES Observations of Energetic Protons E<685 MeV: Ground-Level Events from October 1983 to July 1992," in Proc. 23rd Internat. Cosmic Ray Conf. Calgary, vol. 3, 1993, p. 254. [Buy Via Ask\*IEEE]
- 37, J.Feynman, G.Spitale, and J.Wang, "Interplanetary Proton Fluence Model: JPL 1991." J. Geophys. Res., vol. 98, pp. 13281, 1993. [Buy Via Ask\*IEEE]

- 38, J.Feynman et al., "Solar Proton Events During Solar Cycles 19, 20, and 21," Solar Physics, vol. 126, pp. 385, 1990.
- 39, J.H.King, "Solar Proton Fluences for 1977–82 Space Missions," J. Spacecr. Rockets, vol. 11, pp. 401, 1974. [Buy Via Ask\*IEEE]
- 40, D.Wilkinson and G.Ushomirsky, GOES Space Environment Monitor CD-ROM, 1-Minute and 5-Minute Averages, January 1986 - April 1994, User Documentation: NOAA/National Geophysical Data Center, July 18, 1994. [Buy Via Ask\*IEEE]
- 41, A.J.Tylka et al., "HIIS Results on the Mean Ionic Charge State of SEP Fe above 200 MeV per nucleon," in AIP Conf. Proc., R.Ramaty et al., Ed., vol. 374, 1996, p. 96. [Buy Via Ask\*IEEE]
- 42, D.L.Bertsch, S.Biswas, and D.V.Reames, "Solar Cosmic Ray Composition above 10 MeV/nucleon and its Energy Dependence in the 4 August 1972 Event," Solar Physics, vol. 39, pp. 479, 1974.
- 43, H.J.Crawford, P.B.Price, B.G.Cartwright, and J.D.Sullivan, "Solar Flare Particles: Energy-Dependent Composition and Relationship to Solar Composition," Astrophys. J., vol. 195, pp. 213, 1975. [CrossRef] [Buy Via Ask\*IEEE]
- 44, G.M.Simnett, "Solar Cosmic Radiation During August 1972," Space Science Reviews, vol. 19, pp. 579, 1976.
- 45, W.R.Webber, E.C.Roeloff, F.B.MacDonald, B.J.Teegarden, and J.Trainor, "Pioneer 10 Measurements of the Charge and Energy Spectrum of Solar Cosmic Rays during 1972 August," Astrophys. J., vol. 199, pp. 482, 1975. [CrossRef] [Buy Via Ask\*IEEE]
- 46, D.L.Chenette and W.F.Dietrich, "The Solar Flare Heavy Ion Environment for Single Event Upsets," IEEE Trans. Nucl. Sci., vol. 31, pp. 1217, 1984. [Buy Via Ask\*IEEE]
- 47, D.L.Chenette, J.D.Tobin, and S.P.Geller, CHIME User's Guide for Version 3.4, PL-TR-95-2152, December 6, 1996.
- 48, D.R.Croley, H.B.Garrett, G.B.Murphy, and T.L.Garrard, "Solar Particle Induced Upsets in the TDRS-1 Attitude Control System RAM During the October 1989 Solar Particle Events," IEEE Trans. Nucl. Sci., vol. 42, pp. 1489, 1995. [Abstract] [PDF Full-Text (648KB)]
- 49, E.C.Smith and T.R.Simpson, Predictions of Cosmic Radiation Induced Single Event Upsets in Digital Logic Devices in Geostationary Orbit, TRW report prepared for INTELSAT, November 2, 1987.
- 50, R.A.Leske, J.R.Cummings, R.A.Mewaldt, and E.C.Stone, "Measurements of the Ionic Charge States of Solar Energetic Particles using the Geomagnetic Field," Astrophys. J. Letters, vol. 452, pp. L149, 1995.

### [Buy Via Ask\*IEEE]

- 51, P.R.Boberg, A.J.Tylka, and J.H.Adams Jr., "Solar Energetic Fe Charge State Measurements: Implications for Acceleration by Coronal Mass Ejection-Driven Shocks," Astrophys. J. Letters, vol. 471, pp. L65, 1996. [CrossRef] [Buy Via Ask\*IEEE]
- 52, A.J.Tylka, P.R.Boberg, J.H.Adams Jr., L.P.Beahm, W.F.Dietrich, and T.Kleis, "The Mean Ionic Charge State of Solar Energetic Fe Ions above 200 MeV per Nucleon," Astrophys. J. Letters, vol. 444, pp. L109, 1995. [CrossRef] [Buy Via Ask\*IEEE]
- 53, A.J.Tylka, P.R.Boberg, J.H.Adams Jr., L.P.Beahm, and T.Kleis, "Results from the Heavy Ions in Space (HIIS) Experiment on the Ionic Charge State of Solar Energetic Particles," in Proc. 3rd LDEF Post-Retrieval Symposium, vol. 1, 1995, p. 113. [Buy Via Ask\*IEEE]
- 54, M.E.Shea and D.F.Smart, Tables of Asymptotic Directions and Vertical Cutoff Rigidities for a Five Degree by Fifteen Degree World Grid as Calculated Using the International Geomagnetic Reference Field for Epoch 1975.0 Hanscom AFB, MA, AFCRL-TR-75-0185, 1975.
- 55, N.A.Tsyganenko, "A Magnetospheric Magnetic Field Model with a Warped Tail Current Sheet," Planet. Space Sci., vol. 37, pp. 5, 1989. [CrossRef]
- 56, P.R.Boberg, A.J.Tylka, J.H.Adams Jr., E.O.Flueckiger, and E.Kobel, "Geomagnetic Transmission of Solar Energetic Protons during the Geomagnetic Disturbances of October 1989," Geophys. Res. Letters, vol. 22, pp. 1133, 1995. [Buy Via Ask\*IEEE]
- 57, R.Langel et al., "International Geomagnetic Reference Field, 1991 Revision," J. Geomag. Geoelectr., vol. 43, pp. 1007, 1991. [Buy Via Ask\*IEEE]
- 58, P.N.Mayaud, Derivation, Meaning, and Use of Geomagnetic Indices, Geophysical Monograph Washington, DC: American Geophysical Union, 1980, vol. 22. [Buy Via Ask\*IEEE]
- 59, R.A.Nymmik, "An Approach to Determination of Real Cosmic Ray Rigidities," in *Proc.* 22nd Internat. Cosmic Ray Conj. Dublin, vol. 3, 1991, p. 652. [Buy Via Ask\*IEEE]
- 60, G.P.Summers, E.A.Burke, C.J.Dale, E.A.Wolicki, P.W.Marshall, and M.A.Gehlhausen, "Correlation of Particle-Induced Displacement Damage in Silicon," IEEE Trans. Nucl. Sci., vol. 34, pp. 1134, 1987. [Buy Via Ask\*IEEE]
- 61, G.P.Summers, E.A.Burke, P.Shapiro, S.R.Messenger, and R.J.Walters, "Damage Correlation in Semiconductors Exposed to Gamma, Electron, and Proton Radiations," IEEE Trans. Nucl. Sci., vol. 40, pp. 1372, 1993. [Abstract] [PDF Full-Text (688KB)]

- 62, C.Dale, P.Marshall, B.Cummings, L.Shamey, and A.Holland, "Displacement Damage Effects in Mixed Particle Environments for Shielded Spacecraft CCDs," *IEEE Trans. Nucl. Sci.*, vol. 40, pp. 1628, 1993.
- [Abstract] [PDF Full-Text (892KB)]
- 63, C.E.McIlwain, "Coordinates for Mapping Distributions of Magnetically Trapped Particles," *J. Geophys. Res.*, vol. 66, pp. 3681, 1961.
  [Buy Via Ask\*IEEE]
- 64, S.P.Ahlen, "Z1<sup>7</sup> Stopping Power Formulae for Fast Heavy Ions," *Phys. Rev.*, vol. A17, pp. 1236, 1978.
- 65, J.D.Jackson and R.L.McCarthy, "Z<sup>3</sup> Corrections to Energy Loss and Range," *Phys. Rev.*, vol. B6, pp. 4131, 1972.
- 66, R.M.Sternheimer and R.F.Peirels, "General Expression for the Density Effect for the Ionization Loss of Charged Particles," *Phys. Rev.*, vol. B3, pp. 3681, 1971.
  [Buy Via Ask\*IEEE]
- 67, J.F.Ziegler, J.P.Biersack, and U.Littmark, *The Stopping and Range of Ions in Matter*, New York: Pergamon Press, 1985.
- 68, C.H.Tsao et al., "Scaling Algorithm to Calculate Heavy-Ion Spallation Cross Sections," *Phys. Rev.*, vol. C46, pp. 1257, 1993.
- 69, L.Sihver *et al.*, "Total Reaction and Partial Cross-Section Calculations in Proton-Nucleus (Zt > 26) and Nucleus-Nucleus Reactions (Zp and Zt 26)," *Phys. Rev.*, vol. C47, pp. 1225, 1993.
- 70, C.H.Tsao, R.Silberberg, A.FBarghouty, and M.E.Mattson, *YIELDX: Semi-Empirical Cross-Section Routines*, in preparation. Preprints available upon request from barghouty@acc.roanoke.edu..
- 71, C.S.Dyer, C.J.Watson, C.L.Peerless, A.J.Sims, and J.Barth, "Measurements of the Radiation Environments from CREDO-II on STRV and APEX," *IEEE Trans. Nucl. Sci.*, vol. 43, pp. 2751, 1996.

  [Abstract] [PDF Full-Text (692KB)]
- 72, D.F.Smart and M.A.Shea, "The Change in Geomagnetic Cut-offs Due to Changes in the Dipole Equivalent of Earth's Magnetic Field," in *Proc. 23rd Internat. Cosmic Ray Conf.* Calgary, vol. 3, 1993, p. 781.

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- 73, E.C.Smith, "Effects of Realistic Satellite Shielding on SEE Rates," *IEEE Trans. Nucl. Sci.*, vol. 41, pp. 2396, 1994.
  [Abstract] [PDF Full-Text (340KB)]
- 74, W.L.Bendel and E.L.Petersen, "Proton Upsets in Orbit," *IEEE Trans. Nucl. Sci.*, vol. 30, pp. 4481, 1983.
  [Buy Via Ask\*IEEE]
- 75, W.J.Stapor, J.P.Meyers, J.B.Langworthy, and E.L.Petersen, "Two Parameter Model

Calculations for Predicting Proton Induced Upsets," *IEEE Trans. Nucl. Sci.*, vol. 37, pp. 1966, 1990.

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